

more olefinic linkages, modifiers and regulators are not required. It is not necessary to use antioxidants in the rubber because of its saturated nature.

The vulcanization of Lactoprene EV, facilitated or made possible by the chlorine in the copolymer, can be carried out with the usual agents, including sulfur and metal salts. Of the accelerators commonly used with natural rubber and synthetic rubbers, as well as with amines, certain quinone derivatives, and polynitro compounds. Some of the vulcanizates have excellent dry heat resistance, being superior in this respect to all the elastomers described in technical literature with the exception of the silicones. For example, Lactoprene EV vulcanizates have been observed to retain their rubbery characteristics after being heated in a mechanical convection oven at 300° F. for more than 700 hours. The vulcanizates have unusually long flex life and excellent resistance to mineral oils, sunlight, and atmospheric oxidation. The copolymer is essentially colorless and hence white stocks or products having pastel shades can be made.

### Fire Resistance Test

Detailed laboratory procedure for testing the fire-resistant grade of Fabrilite vinyl plastic coated fabrics for upholstery has been developed, and Du Pont officials are releasing technical details in the hope of promoting standardization of requirements for upholstery to be used in places of public assembly in the United States. Samples of fire-resistant Fabrilite, cut in strips 1 by 10 inches are mounted vertically so that the center of the lower end of each strip is 4 inches from the top of a standard laboratory gas burner. The samples are then exposed to a 5 1/2-inch flame—which has a 1 1/2-inch blue cone—for 10 seconds. The temperature pro-

duced by that flame is several times higher than that necessary to ignite ordinary combustible materials such as cotton, wood, or paper. The flame is then withdrawn. To pass the test, the samples must show no after-flame after two seconds, nor after-glow after 40 seconds.

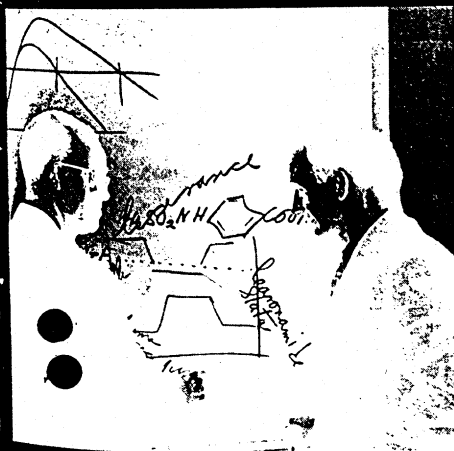
### Process for Isobutane

A patent for the isomerization of n-butane to isobutane has been issued to G. L. Farrar of the department of chemical engineering at Texas A&M College. This process, used in volume production of aviation gasoline, is a wartime development of the Magnolia Petroleum Co. and according to the inventor compares favorably from an economic standpoint with the widely used Shell process.

The process, patent for which is assigned to the Socony-Vacuum Co., is best described as liquid phase isomerization of n-butane to isobutane in the presence of dissolved aluminum bromide catalyst. The reaction is carried out in a packed reactor with the aid of minute amounts of air or oxygen to promote it, and a high level of agitation is maintained in the reactor. Good conversions are obtained at a relatively low residence time and with good catalyst life.

### Neoprene Paint

A neoprene paint for use as a coating to protect surfaces exposed to fats, oils, and greases or corrosive chemical liquids, solids, or fumes is made by Union Bay State Chemical Co., 50 Harvard St., Cambridge, Mass. It adheres to wood, metal, and other smooth surfaces and resists abrasive action. It is said to dry completely in several hours and has no odor. It is suitable for spraying if thinned with toluene or other thinners.



### Aid to Penicillin Therapy

Karl Beyer, Sharp & Dohme's director of pharmacological research, describes Staticin caronamide, penicillin compound, for Daniel Boret, French scientist famed for work on antihistamine agents. Used in conjunction with penicillin, Staticin is expected to increase the effectiveness of penicillin therapy.

VOLUME 25, NO. 44 • NOVEMBER 3, 1947

### SEMICARBAZIDE HYDROCHLORIDE

CP grade: Assay 99-100%.  
Pract. grade: Assay 98% min.

White crystals, freely soluble in water, insoluble in alcohol.

Use: Isolation of Ketones and Aldehydes, forming well-defined crystalline compounds.

### 2-5 DINITROBENZOYL-CHLORIDE

Cream colored crystals, M.P. 69-70° C.

Use: Identification and isolation of certain high molecular compounds containing Hydroxy-groups.

HYDRAZINE HYDRATE SODIUM AZIDE  
HYDRAZINE SULFATE SODIUM CYANATE

### FAIRMOUNT CHEMICAL CO., INC.

600 Ferry St., Newark 5, N. J.



Inorganic and Organic Chemicals

Biological Stains Solutions

Chemical Indicators Test Papers

Write for copy of our catalog

The COLEMAN & BELL Co.  
Manufacturing Chemists, Norwood, O., U.S.A.

**COLEMAN & BELL**